

Exhibit 2

DATE OF PREPARATION OF CV: DECEMBER 18, 2018

PERSONAL DATA

Katherine M. Keyes PhD MPH

Birth date: April 8th, 1980

Birthplace: Minneapolis, MN

Citizenship: USA

Institutional affiliation:

Department of Epidemiology

Columbia University

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New York, NY 10032

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ACADEMIC TRAINING

University of Minnesota	September 1998 – December 2001
Bachelor of Science, with Honors	Minneapolis, MN
Bachelor of Arts, with Honors	
Columbia University	September 2004 – May 2006
Master of Public Health, Epidemiology	New York, NY
Columbia University	September 2006 – June 2010
Doctor of Philosophy, Epidemiology	New York, NY
Thesis title: Ecologic-level disapproval and the prevalence of substance use: A multi-level age-period-cohort analysis of high-school attending adolescents in the United States.	
Sponsor: Deborah Hasin	
Publications: see peer-reviewed journal publications #45, 51, and 65.	

ACADEMIC APPOINTMENTS

Associate Professor of Epidemiology	July 2016-Present
Department of Epidemiology	New York, NY
Columbia University Mailman School of Public Health	
Assistant Professor of Epidemiology	February 2012-June 2016
Department of Epidemiology	New York, NY
Columbia University Mailman School of Public Health	
Assistant Professor of Epidemiology (in Psychiatry)	January 2013-July 2016
Department of Psychiatry	New York, NY
Columbia University College of Physicians and Surgeons	
Adjunct Research Assistant Professor	January 2015-present
Survey Research Center, Institute for Social Research	
University of Michigan	Ann Arbor, MI

Adjunct Associate Professor July 2018-present
Society and Health Research Center Santiago, Chile
Universidad Mayor

TRAINERSHIPS

Columbia University, New York, NY June 2010 – January 2012
Columbia University Epidemiology Merit Post-doctoral Fellow

Columbia University, New York, NY Sept 2006 – June 2010
Psychiatric Epidemiology Pre-doctoral Training Fellow (T32 MH013043, PI: Link)

PROFESSIONAL ORGANIZATIONS AND SOCIETIES

American Psychopathological Association (2006-present)

- *Nominations committee, 2013
- * Robins-Guze early career investigator award recipient, 2017

Research Society on Alcoholism (2006-present)

- * Program committee, 2015-2017
- * Young Investigator Award recipient, 2015

Society for Epidemiologic Research (2007-present)

- * Lilienfeld award recipient, 2008
- * Education committee, 2015-present
- * Member-at-Large, Executive committee, 2018-present

Society for Research on Child Development (2012-present)

- * Thornberg Dissertation Award committee, 2014-2018
- * Communications committee, 2017-present

World Psychiatric Association Epidemiology and Public Health Section (2011-present)

- *Michelle Tansella Award recipient, 2016
- *Executive committee, 2016-present
- *Local host of 2018 meeting, held at Columbia University, New York, May 2-4th, 2018

SELECTED HONORS AND AWARDS

Student Merit Travel Award, Research Society on Alcoholism, 2006

Women & Gender Junior Investigator Award, College on Problems of Drug Dependence, 2006

Finalist, Gordis Award for outstanding student research, Research Society on Alcoholism, 2007

Student Merit Travel Award, Research Society on Alcoholism, 2007

Lilienfeld Prize for Student Research, Society for Epidemiologic Research, 2008

Gordis Award for outstanding student research, Research Society on Alcoholism, 2008

Student Merit Travel Award, Research Society on Alcoholism, 2008

National Institute of Drug Abuse Travel Award, American Psychological Association, 2009

First place, Division 50 Student Poster Competition, American Psychological Association, 2009

Student award, Epidemiology Section, American Public Health Association, 2009

Student Merit Travel Award, Research Society on Alcoholism, 2009

William Farr Award in Epidemiology, Columbia University, 2010

Robert Wood Johnson Health and Society Scholars Fellowship, 2010 (declined)

Columbia Psychiatric-Neurological Epidemiology Early Investigator Award, 2012

Research Society on Alcoholism Young Investigator Award, 2015

Tow Scholarship, Mailman School of Public Health, Columbia University, 2015

Calderone Junior Faculty Prize, Mailman School of Public Health, Columbia University, 2016

Michelle Tansella Award, World Psychiatric Association Epidemiology section, 2016
Robins-Guze early career investigator award, American Psychopathological Association, 2016
NIH Early-Stage Investigator, Office of Disease Prevention, 2017

FELLOWSHIP AND GRANT SUPPORT

PENDING

“As adolescent substance use declines, internalizing symptoms increase: identifying high-risk substance using groups and the role of social media, parental supervision, and unsupervised time” (PI: Keyes)

Grant number TBA

Role on project: Principal investigator

Dates of funding: 07/01/2019-06/30/2024

Funder: National Institute of Drug Abuse (R01 submission)

Total direct and indirect costs: \$434,794

To be reviewed March 2019

“Health aging with alcohol? Harnessing longitudinal data from 20 countries to understand health impacts of moderate drinking among older adults” (PI: Keyes)

R01-AA026959

Role on project: Principal investigator

Dates of funding: 04/01/2019-03/31/2024

Funder: National Institute of Alcohol Abuse and Alcoholism (R01 submission)

Total direct and indirect costs: \$485,851.00

To be reviewed May 2019

“Diverging trends between depression/suicidality and alcohol/opioid use among adolescents in the United States: Subgroup variation and the role of social media in 2 samples of adolescents” (PI: Keyes)

Grant number TBA, subproject of CDC injury center resubmission

Role on project: Principal investigator

Dates of funding: 07/01/2019-06/30/2021

Funder: Centers for Disease Control and Prevention

Total direct and indirect costs: \$200,000

Score: 19 (percentile unavailable)

Pending final funding decision

“Examining the synergistic effects of cannabis and prescription opioid policies on chronic pain, opioid prescribing, and opioid overdose” (PI: Martins and Cerdá)

Role on project: Co-Investigator

Funder: National Institute on Drug Abuse (R01 submission)

Currently pending funding

PRESENT

“Columbia Injury Control Research Center” (PI: Li)

R49 CE002096

Role on project: Research Director

Dates of funding: 08/01/2012-07/31/2019

Funder: Centers for Disease Control and Prevention

“Age, period, and cohort effects on gender differences in alcohol use and alcohol-related problems in 47 national, longitudinally-followed cohorts” (PI: Keyes and Jager)

R01-AA026861

Role on project: Principal investigator and contact PI (Multiple PI with Justin Jager)

Dates of funding: 07/01/2018-06/30/2023

Funder: National Institute of Alcohol Abuse and Alcoholism

Total direct and indirect costs: \$529,899

“Substance abuse history, mental health and firearm violence: from evidence to action”

(PI: Keyes and Cerdá)

Role on project: Principal investigator and Contact PI (Multiple PI with Magdalena Cerdá)

Dates of funding: June 2015 – May 2019 (currently on NCE)

Funder: National Institute of Alcohol Abuse and Alcoholism (R21 DA041154)

Direct costs: \$275,000

“Race, alcohol consumption, and vehicle crashes: an epidemiologic paradox” (PI: Keyes)

Role on project: Principal investigator

Dates of funding: June 2013 – May 2019 (currently on NCE)

Funder: National Institute of Alcohol Abuse and Alcoholism (K01AA021511)

Direct costs: \$849,849

“Aging well with alcohol? Harnessing longitudinal data from 20 countries to understand health impacts of moderate drinking among older adults” (PI: Keyes)

Role on project: Principal investigator

Dates of funding: June 2017 – May 2019

Funder: The Robert N. Butler Columbia Aging Center

Direct costs: \$30,000

“Drug use among nightclub and dance festival attendees in New York City” (PI: Palamar)

Role on project: Co-Investigator, PI of Columbia subcontract

Dates of funding: 09/01/2018-05/31/2021

Funder: National Institute on Drug Abuse (R01-DA044207)

Total direct and indirect costs: \$497,339

“Monitoring the Future: Drug Use and Lifestyles of American Youth” (PI: Miech)

Role on project: Co-Investigator, PI of Columbia subcontract

Dates of funding: August 2017 – June 2022

Funder: National Institute on Drug Abuse (R01 DA001411)

Direct costs: \$5,123,733

“State medical marijuana laws and NSDUH marijuana use and consequences since 2004”

(PI: Martins)

Role on project: Co-Investigator

Dates of funding: August 2013 – December 2018 (currently on NCE)

Funder: National Institute on Drug Abuse (R01 DA037866)

Direct costs: \$ 750,000

PAST

“State medical marijuana laws and teen marijuana use and attitudes since 1991” (PI: Hasin)

Role on project: Co-Investigator, PI of Columbia subcontract

Dates of funding: August 2012 – July 2017

Funder: National Institute on Drug Abuse (R01 DA034244)

Direct costs: \$ 374,562

“Neighborhood interventions in alcohol-related homicide: a systems approach” (MPI:

Keyes and Cerdá)

Role on project: Principal investigator and Contact PI (Multiple PI with Magdalena Cerdá)

Dates of funding: October 2013-September 2016

Funder: National Institute of Alcohol Abuse and Alcoholism (R21 AA021909)

Direct costs: \$275,000

“Racial/Ethnic Disparity in Alcohol-Attributable Mortality from Motor Vehicle Crashes”

Role on project: Principal investigator (PI)

Dates of funding: January 2016 – December 2016

Funder: Columbia University Center for Injury Epidemiology and Prevention

Direct costs: \$10,000

“Correcting nonresponse bias in national surveys”

Role on project: Principal investigator

Dates of funding: November 2015-October 2016

Funder: Columbia University Calderone Junior Faculty Prize

Direct costs: \$25,000

“Principles of Epidemiology: a flipped classroom proposal”

Role on the project: Principal Investigator (Multiple PI with Silvia Martins)

Dates of funding: May 2015 to May 2016

Funder: Columbia University Provost Hybrid Learning Course Redesign and Delivery program

Direct costs: \$12,000

“Mental health and firearm violence: from evidence to action (MPI: Keyes and Cerdá)

Role on project: Principal investigator (Multiple PI with Magdalena Cerdá)

Dates of funding: January 2015 – December 2015

Funder: Columbia University Center for Injury Epidemiology and Prevention

Direct costs: \$10,000

“Developing a translational framework for studying grief and grief-related pathologies”

Role on the project: Co-Investigator (PI: Zoe Donaldson)

Dates of funding: May 2015 – September 2015

Funder: Columbia University Collaborative and Multidisciplinary Pilot Research Awards

Direct costs: \$15,000

“Does structural discrimination explain health disparities by race? Preliminary analyses in state-to-state mobility” (PI: Keyes)

Role on project: Principal investigator

Dates of funding: December 2012 – June 2013

Funder: Robert Wood Johnson Health & Society Scholars Program at Columbia University

Direct costs: \$5,000.00

Research Associate Award: "The longitudinal emergence of racial/ethnic differences in alcohol use disorders and depression from adolescence to adulthood" (PI: Keyes)

Role on project: Principal Investigator

Dates of funding: September 2011 – June 2012

Funder: Columbia University

Direct costs: \$30,000.00.

"Period and cohort effects in adolescent substance use: testing the effects of the social environment in a time series of U.S. adolescents from 1976-2008" (PI: Keyes)

Role on project: Principal Investigator

Dates of funding: December 2010 – June 2011

Funder: Robert Wood Johnson Health & Society Scholars Program at Columbia University

Direct costs: \$10,000.00

"Age-period-cohort effects on substance use in adolescence, 1976-2006" (PI: Keyes)

Role on project: Principal Investigator

Dates of funding: June 2009 – October 2011 (electively terminated June 2010 due to early graduation)

Funder: National Institute on Drug Abuse (F31 DA026689-01)

TEACHING EXPERIENCE AND RESPONSIBILITIES

Role: Instructor

- EPID P8410: *Psychiatric Epidemiology*, 2016-2017
- HPMN P8545: *Analysis of Large-Scale Data*, 2016-2018
- EPIC Summer Institute: *Principles of Epidemiology*, 2014-2018
- EPIC Summer Institute: *Multi-level analysis for public health research*, 2016-2018
- EPID 787: *Multi-level analysis for public health research*, 2015-2018 (University of Michigan Graduate Summer Session in Epidemiology)
- Special short course: *Multi-level analysis for public health research*, 2017, (University of Cape Town, Cape Town, South Africa)
- EPID P6400: *Principles of Epidemiology*, 2010- 2015
- EPIC Summer Institute: *Analysis of Complex Survey Data*, 2011-2013
- MSPH Core: *Quantitative Foundations of Public Health*, 2012

Role: Assistant Course Director

- EPID P6400: *Principles of Epidemiology*, 2008, 2009

Role: Guest lecturer

- K Award Seminar Series, New York State Psychiatric Institute, 2013-2018
- EPID P9489: *Advanced Techniques in Epidemiological Methods*, 2017
- MPH Core Module 202-206: *Principles of Epidemiology*, (École des hautes études en santé publique, Paris, France), 2011-2016
- EPID P8416: *Selected Problems in Measurement*, 2010-2016
- EPID P8438: *Design and Conduct of Observational Epidemiology*, 2012-2015
- EPID P8419: *Reading Seminar in Psychiatric Epidemiology*, 2009-2015
- EPID P8470: *Epidemiology of Alcohol and Drug Problems*, 2011-2015

- EPID P9419: *Master's Essay in Epidemiology*, 2008-2015
- EPID P8471: *Social Epidemiology*, 2010

Role: Teaching assistant

- EPID P6400: *Principles of Epidemiology*, 2006-2008
- EPID P8421: *Introduction to Clinical Psychiatry for Public Health*, 2006
- EPID P8471: *Social Epidemiology*, 2008
- EPID P8419: *Reading Seminar in Psychiatric Epidemiology*, 2009
- EPID P8470: *Epidemiology of Alcohol and Drug Problems*, 2010

TRAINING PROGRAM INVOLVEMENT

T32 MH013043-45 "A Research Training Program in Psychiatric Epidemiology"

Role: Co-Director (with Ezra Susser, Bruce Dohrenwend, and Sharon Schwartz)

T32 DA-031099-05 "Epidemiology of Substance Use Disorders Training Program at Columbia University" (PI: Hasin)

Role: Faculty, Steering Committee

T32 ES023772-02 "Training Program in Environmental Life Course Epidemiology" (PI: Factor-Litvak)

Role: Faculty

DEPARTMENTAL SERVICE

- Faculty director, Executive MS in Epidemiology Program, 2012-2015
- Methods qualifying exam committee, 2015-present

STUDENT ADVISEES

Master's students:

Mary Elizabeth Smith, 2011 (thesis, second reader)
Pedro Carneiro, 2012 (thesis, second reader)
Bryan Kutner, 2012 (thesis, second reader)
Erin Gilbert, 2012 (thesis, second reader)
Xinfan Liu, 2012 (thesis, second reader)
Charissa Pratt, 2013 (thesis, first reader)
Arti Virkud, 2013 (thesis, first reader)
Jonathan Platt, 2013 (thesis, first reader)
Edward Gastel, 2013 (thesis, first reader)
Nathalie DuRivage, 2013 (thesis, first reader)
Thomas Vo, 2014 (thesis, first reader)
Mark Morgan, 2014 (thesis, first reader)
Sabrina Cheng, 2014 (thesis, first reader)
Stephanie Brazis, 2014 (thesis, first reader)
Ruth Chang, 2014 (thesis, first reader)
Amy Lanza, 2015 (thesis, first reader)
David Sowa, 2015 (thesis, first reader)
Chidinma Egbukichi, 2015 (thesis, first reader)

Khudejha Asghar, 2015 (thesis, first reader)
Dahsan Gary, 2016 (thesis, first reader)
Joy Ukaigwe, 2016 (thesis, first reader)
Elizabeth Wartella, 2016 (thesis, first reader)
Rachel Webster, 2016 (thesis, first reader)
Caroline Hugh, 2017 (thesis, first reader)
Ghadah Gadi, 2017 (thesis, first reader)
Margaret Havunjian, 2018 (thesis, first reader)
Miriam Woodward, 2018 (thesis, first reader)
Ian Rodgers, 2018 (thesis, first reader)
Tatini Mal-Sarkar, expected 2019 (thesis, first reader)
Noah Kreski, expected 2019 (thesis, first reader)
Mia Pandit, expected 2019 (thesis, first reader)

Doctoral students (former):

Joanne Brady, 2013-2014 (dissertation, second reader)
*Currently: senior research fellow, NORC at the University of Chicago
Melissa Dupont-Reyes, 2015-2017 (dissertation, second reader)
*Currently: post-doctoral fellow, University of Texas at Austin, Latino Research Initiative
Nina Banerjee, 2014-present (dissertation, second reader)
* Currently: psychologist in private practice, Orange County, CA
Julian Santaella, 2015-2018 (dissertation, sponsor)
*Currently: faculty, Universidad del Valle, Colombia

Doctoral students (present):

Paula Bordelois, 2015-present (dissertation, sponsor)
Jonathan Platt, 2015-present (dissertation, sponsor)
Somjen Frazer, 2015-present (dissertation, outside reader)
David Fink, 2015-present (dissertation, second reader)
Aravind Pillai, 2016-present (dissertation, second reader)
Victor Puac-Polanco, 2018-present (dissertation, chair)
Greg Cohen, 2018-present (dissertation, chair)
Eleanor Hayes-Larson, 2018-present (dissertation, second reader)

Discussant for dissertation proposal defense:

Wendy Cheng, 2014
Kate Sapra, 2014
Emily Greene, 2016

OTHER PROFESSIONAL ACTIVITIES

JOURNAL EDITING

Current

- Drug and Alcohol Dependence, Associate Editor, 2015 to present
- American Journal of Public Health, guest editor, Special Section: "Improving Population Mental Health in the 21st Century", 2018
- Alcoholism: Clinical and Experimental Research, Field Editor, 2014 to present
- Injury Epidemiology, Associate Editor, 2013 to present

Former

- BMC Psychiatry, Associate Editor, 2011 to 2015
- Social Psychiatry and Psychiatric Epidemiology, Editor of commentaries and editorials, 2014 to 2016

JOURNAL REVIEW (SELECTION)

Addiction; Alcoholism: Clinical and Experimental Research; American Journal of Epidemiology; American Journal of Psychiatry; American Journal of Public Health; Archives of General Psychiatry; BMC Psychiatry; British Journal of Psychiatry; Contemporary Drug Problems; Demography; Depression and Anxiety; Drug and Alcohol Dependence; Epidemiology; International Gambling Studies; International Journal of Epidemiology; JAMA; JAMA Pediatrics; JAMA Psychiatry; Journal of Nervous and Mental Diseases; Journal of Psychiatric Research; Journal of Traumatic Stress; Journal of Studies on Alcohol and Drugs; Molecular Psychiatry; New England Journal of Medicine; Preventive Medicine; PLoS One; Psychological Medicine; Social Psychiatry and Psychiatric Epidemiology; Social Science and Medicine; Substance Abuse Treatment, Prevention, and Policy

ABSTRACT REVIEW

Society for Epidemiologic Research

NIH STUDY SECTIONS

- NIAAA: AA1: Biomedical Research Review Subcommittee, November 9th, 2015
- NIAAA: AA1: Biomedical Research Review Subcommittee, July 11th, 2016
- NIDA: Special Emphasis Panel: PAR-16-24: Accelerating the Pace of Drug Abuse Research Using Existing Data, November 4th, 2016
- NIAAA: AA2: Epidemiology, Prevention and Behavior Research Review Subcommittee, March 6th, 2017
- Social Sciences and Population Studies-B (SSPB) study section, June 15th, 2017
- NIAAA: AA1: Biomedical Research Review Subcommittee, July 14th, 2017
- NIAAA: AA2: Epidemiology, Prevention and Behavior Research Review Subcommittee, March 5th, 2018
- NIDA: Special Emphasis Panel: PAR-16-24: Accelerating the Pace of Drug Abuse Research Using Existing Data, March 1st, 2018

NATIONAL COMMITTEE MEMBERSHIP

National Academy of Sciences, Engineering, and Medicine: Health and Medicine Division
“Accelerating the Progress to Reduce Alcohol-Impaired Driving Fatalities”
In progress, 2017-2018

PUBLICATIONS

PEER-REVIEWED JOURNAL PUBLICATIONS

1. Hasin DS, Hatzenbuehler ML, **Keyes KM**, Ogburn E. 2006. Substance use disorders: Diagnostic and Statistical Manual of Mental Disorders, fourth edition (DSM-IV) and International Classification of Diseases, tenth edition (ICD-10). Addiction, (101 Suppl 1): 59-75. PMID: 16930162.
2. Hasin DS, **Keyes KM**, Hatzenbuehler M, Aharonovich E, Alderson D. 2007. Effects of physical proximity, loss, and previously-assessed history on alcohol use and traumatic stress symptoms following terrorist attacks. American Journal of Public Health, 97(12):2268-75. PMID: 17971553. PMCID: PMC2089108.
3. Goodwin RD, **Keyes KM**, Simuro N. 2007. Cigarette use and mental disorders during pregnancy. American Journal of Obstetrics and Gynecology, 109(4):875-83. PMID: 17400849.
4. Goodwin RD, Zvolensky, MJ, **Keyes KM**. 2008. Nicotine dependence and mental disorders among adults in the United States. Evaluating the role of mode of administration. Psychological Medicine, 43(3):1471-1477. PMID: 18366824.
5. **Keyes KM**, Hatzenbuehler ML, Alberti PM, Narrow WE, Grant BF, Hasin DS. 2008. Service utilization differences for axis I psychiatric and substance use disorders between white and black adults. Psychiatric Services, 59(8):893-901. PMID: 18678687. PMCID: PMC2729457.
6. Beseler C, Aharonovich E, **Keyes KM**, Hasin DS. 2008. Adult transition from at-risk drinking to alcohol dependence: The relationship of family history and drinking motives. Alcoholism: Clinical and Experimental Research, 32(4):607-16. PMID: 18341650. PMCID: PMC3850293.
7. Heiman G, Ogburn E, Gorroochurn P, **Keyes KM**, Hasin D. 2008. Evidence for a two-stage model of dependence using the NESARC and its implications for genetic association studies. Drug and Alcohol Dependence, 92(1-3), 258-266. PMID: 17933473. PMCID: PMC2266584.
8. **Keyes KM**, Martins SS, Hasin DS. 2008. Past 12-month and lifetime comorbidity and poly-drug use of ecstasy users among young adults in the United States: Results from the National Epidemiologic Survey on Alcohol and Related Conditions. Drug and Alcohol Dependence, 97(1-2): 139-149. PMID: 18524499. PMCID: PMC3771490.
9. Vesga-Lopez O, Blanco C, **Keyes KM**, Olfson M, Grant BF, Hasin DS. 2008. Psychiatric disorders in pregnant and postpartum women in the United States. Archives of General Psychiatry, 65(7):805-15. PMID: 18606953. PMCID: PMC2669282.
10. Hatzenbuehler ML, **Keyes KM**, Narrow WE, Grant BF, Hasin DS. 2008. Racial/Ethnic disparities in service utilization for mental health and substance disorders: comorbid individuals in the general population. Journal of Clinical Psychiatry, 69(7):1112-1121. PMID: 18517286. PMCID: PMC2745048.
11. **Keyes KM**, Hasin DS. 2008. Socio-economic status and problem alcohol use: the positive relationship between income and the DSM-IV alcohol abuse diagnosis. Addiction, 103(7):1120-30. PMID: 18494841. PMCID: PMC385924.

12. Thompson R, Lizardi D, **Keyes KM**, Hasin DS. 2008. Childhood or Adolescent Parental Divorce/Separation, Parental History of Alcohol Problems, and Offspring Lifetime Alcohol Dependence. Drug and Alcohol Dependence, 98(3):264-269. PMID: 18757141. PMCID: PMC3818521.
13. **Keyes KM**, Grant BF, Hasin DS. 2008. Evidence for a closing gender gap in alcohol use, abuse, and dependence in the United States population. Drug and Alcohol Dependence, 93(1-2): 21-29. PMID: 17980512. PMCID: PMC3163892.
14. Hasin D, **Keyes KM**, Alderson D, Wang S, Aharonovich E, Grant B. 2008. Cannabis withdrawal in the United States: Results from the NESARC. Journal of Clinical Psychiatry, 69(9):1354-63. PMID: 19012815. PMCID: PMC2777674.
15. Goodwin R, Davidson KW, **Keyes KM**. 2009. Mental disorders and cardiovascular disease among adults in the United States. Journal of Psychiatric Research, 43(3): 239-246. PMID: 18614179. PMCID: PMC3340909.
16. Hatzenbuehler ML, **Keyes KM**, Hasin DS. 2009. Associations between perceived weight discrimination and the prevalence of psychiatric disorders in the general population. Obesity, 17(11):2033-2039. PMID: 19390520. PMCID: PMC3767420.
17. Goodwin, RD, **Keyes KM**, Hasin DS. 2009. Changes in cigarette use and nicotine dependence in the United States. American Journal of Public Health, 99(8):1471-1477. PMID: 19008515. PMCID: PMC2707489.
18. Pilowsky D, **Keyes KM**, Hasin DS. 2009. Adverse Childhood Events and Lifetime Alcohol Dependence. American Journal of Public Health, 99(2):258-263. PMID: 19059847. PMCID: PMC2622772.
19. Goodwin RD, **Keyes KM**, Stein MB, Talley NJ. 2009. Peptic ulcer and mental disorders among adults in the community: The role of nicotine and alcohol use disorders. Psychosomatic Medicine, 71(4)463-468. PMID: 19443694. PMCID: PMC3340907.
20. Martins SS, **Keyes KM**, Storr CL, Zhu H, Chilcoat, HD. 2009. Pathways between nonmedical opioid use/dependence and psychiatric disorders: results from the National Epidemiologic Survey on Alcohol and Related Conditions. Drug and Alcohol Dependence, 103(1-2):16-24. PMID: 19414225. PMCID: PMC2699563.
21. **Keyes KM**, Geier T, Grant BF, Hasin DS. 2009. Influence of a drinking quantity and frequency measure on the prevalence and demographic correlates of DSM-IV alcohol dependence. Alcoholism: Clinical and Experimental Research, 33(5):761-771. PMID: 19298332. PMCID: PMC3163446.
22. Lizardi D, Thompson R, **Keyes KM**, Hasin DS. 2009. Parental divorce, parental depression, and gender differences in adult offspring suicide attempt. Journal of Nervous and Mental Disease, 197(12):899-904. PMID: 20010025. PMCID: PMC3767404.

23. Hatzenbuehler ML, **Keyes KM**, Hasin DS. 2009. State-level policies and psychiatric morbidity in lesbian, gay, and bisexual populations. American Journal of Public Health, 99(12):2275-2281. PMID: 19833997. PMCID: PMC2775762.
24. Hatzenbuehler ML, McLaughlin K, **Keyes KM**. The impact of institutional discrimination on psychiatric disorders in lesbian, gay, and bisexual populations: a prospective study. 2010. American Journal of Public Health, 100(3):452-459. PMID: 20075314. PMCID: PMC2820062.
25. Baca-Garcia E, Perez-Rodriguez M, **Keyes KM**, Oquendo MA, Hasin DS, Grant BF, Blanco C. 2010. Suicidal ideation and suicide attempts in the United States: 1991-1992 and 2001-2002. Molecular Psychiatry, 15(3):250-259. PMID: 18779820. PMCID: PMC2825279.
26. **Keyes KM**, Utz R, Robinson W, Li G. 2010. What is a cohort effect? Comparison of three statistical methods for modeling cohort effects in obesity prevalence in the United States, 1971–2006. Social Science and Medicine, 70:1100-1108. PMID: 20122771. PMCID: PMC3469580.
27. McLaughlin K, Hatzenbuehler M, **Keyes KM**. 2010. Responses to Discrimination and Psychiatric Disorders Among Black, Hispanic, Female, and Lesbian, Gay, and Bisexual Individuals. American Journal of Public Health, 100(8):1477-1484. PMID: 20558791. PMCID: PMC2901295.
28. Martins SS, **Keyes KM**, Storr CL, Zhu H, Grucza, RA. 2010. Birth-Cohort Trends in Lifetime and Past-Year Prescription Opioid-Use Disorder Resulting From Nonmedical Use: Results From Two National Surveys. Journal of Studies on Alcohol and Drugs, 71(4):480-487. PMID: 20553656. PMCID: PMC2887918.
29. Shmulewitz D, **Keyes KM**, Beseler C, Aharonovich E, Aivadyan C, Spivak B, Hasin DS. 2010. The dimensionality of alcohol use disorders: Results from Israel. Drug and Alcohol Dependence, 111(1-2):146-154. PMID: 20537809. PMCID: PMC3884677.
30. **Keyes KM**, Martins SS, Blanco CB, Hasin DS. 2010. Telescoping and gender differences in alcohol dependence: new evidence from two national surveys. American Journal of Psychiatry, 167(8):969-976. PMID: 20439391. PMCID: PMC3767417.
31. Fenton M, **Keyes KM**, Martins S, Hasin DS. 2010. The Role of a Prescription in Anxiety Medication Use, Abuse, and Dependence. American Journal of Psychiatry, 167(10):1247-1253. PMID: 20595413. PMCID: PMC3756550.
32. **Keyes KM**, Li G. 2010. A multi-phase method for estimating cohort effects in age-period contingency table data. Annals of Epidemiology, 20(10):779-785. PMID: 20627769. PMCID: PMC2946643.
33. Lizardi D, Thompson R, **Keyes KM**, Hasin DS. 2010. The role of depression in the differential effect of childhood parental divorces on male and female adult offspring suicide attempt risk. Journal of Nervous and Mental Diseases, 198(9):687-690. PMID: 20823733. PMCID: PMC3755764.

34. **Keyes KM**, Hatzenbuehler ML, McLaughlin K, Link BG, Olfson M, Grant B, Hasin DS. 2010. Stigma and treatment for alcohol disorders in the United States. American Journal of Epidemiology, 172(12):1364-1372. PMID: 21044992. PMCID: PMC2998202.
35. **Keyes KM**, Krueger RF, Grant BF, Hasin DS. 2011. Alcohol craving and the dimensionality of alcohol disorders. Psychological Medicine, 41(3):629-640. PMID: 20459881. PMCID: PMC2981698.
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BOOKS

1. Shrout PE, **Keyes KM**, Ornstein K, eds. 2010. Causality and Psychopathology. Oxford University Press.
2. **Keyes KM**, Galea S. 2014. Epidemiology matters: a new introduction to methodological foundations. New York, Oxford University Press.
 - a. Highest-selling epidemiology title in 2014
 - b. Used in graduate introductory epidemiology in at least 22 universities worldwide (based on their contact with Keyes and Galea)
 - c. >3,000 copies sold

3. **Keyes KM**, Galea S. 2016. Population Health Science. New York, Oxford University Press.
 - a. Highest-selling epidemiology title in 2016
 - b. >1,500 copies sold

LETTERS TO THE EDITOR/COMMENTARIES

1. Bates L, Barnes D, **Keyes KM**. (2011). Re: Reconsidering the role of social disadvantage in physical and mental health: stressful life events, health behaviors, race, and depression. American Journal of Epidemiology. PMID: 21540321. PMCID: PMC3937594.
2. Wall MM, Poh E, Cerdá M, **Keyes KM**, Galea S, Hasin DS. (2012). Commentary on Harper S, Strumph EC, Kaufman JS. Do Medical Marijuana Laws Increase Marijuana Use? Replication Study and Extension. Annals of Epidemiology, 22(7): 536-7. PMID: 22534177. PMCID: PMC3547124.
3. **Keyes KM**, Cerdá M. (2013). Racial/ethnic differences in alcohol-related suicide: A call for focus on unraveling paradoxes and understanding structural forces that shape alcohol-related health. Alcoholism: Clinical and Experimental Research, ePub Feb 26. PMID: 23441581. PMCID: PMC5540371.
4. **Keyes KM**, Davey Smith G, Susser E. (2013). On sibling designs. Epidemiology, 24(3): 473-4. PMID: 23549193.
5. **Keyes KM**, Miech R. (2013). Commentary on Dawson et al. (2013): Drink to your health? Maybe not. Addiction, 108(4):723-4. PMID: 23496071.
6. **Keyes KM**, Cheslack-Postava K, Heim C, Westhoff C, Haloosim M, Walsh K, Koenen K. (2013). Author's response to "Hormonal Contraception and Mood" American Journal of Epidemiology, ePub Sept 15. PMID: 24043438. PMCID: PMC3954083.
7. **Keyes KM**, Davey Smith G, Susser E. (2014). Smoking in pregnancy and offspring health: early insights into family-based designs? International Journal of Epidemiology, 43(5): 1381-8. PMID: 25301865. PMCID: PMC4757959.
8. **Keyes KM**, Ananth C. (2014). Age, period, and cohort effects in perinatal epidemiology: implications and considerations. Paediatric and Perinatal Epidemiology, 28(4):277-9. PMID: 24920490. PMCID: PMC5647997.
9. **Keyes KM**, Susser E. (2014). Expanding the scope of psychiatric epidemiology in the 21st century. Social Psychiatry and Psychiatric Epidemiology, 49(10): 1521-4. PMID: 25096981. PMCID: PMC4167940.
10. **Keyes KM** Susser E, Cheslack-Postava K, Fountain C, Liu K, Bearman PS. 2014. Authors' response: Cohort effects explain the increase in autism diagnosis: an identifiability problem of the age-period-cohort model. International Journal of Epidemiology, 43(5): 1381-8. PMID: 25393200. PMCID: PMC4265900.

11. **Keyes KM**, Barnes D, Bates L. 2015. A letter in response to: Weaver A, Himle JA, Taylor RJ, Matusko NN, Abelson JM. Urban vs Rural Residence and the Prevalence of Depression and Mood Disorder Among African American Women and Non-Hispanic White Women. JAMA psychiatry. PMID: 26561032. PMCID: PMC4671197.
12. Reininghaus U, **Keyes KM**, Morgan C. Novel methods in psychiatric epidemiology. 2016. Soc Psychiatry and Psychiatr Epidemiol. ePub Jun 22. PMID: 27333982. PMCID: PMC4962869.
13. Susser E, Verhulst S, Kark JD, Factor-Litvak PR, **Keyes K**, Magnus P, Aviv A. 2016. Non-Dynamic Association of Depressive and Anxiety Disorders with Leukocyte Telomere Length? American Journal of Psychiatry, 173(11): 1147. PMID: 27798991. PMCID: PMC5325116.
14. Susser E, **Keyes KM**. 2017. Prenatal nutritional deficiency and psychosis: where do we go from here? JAMA Psychiatry, Feb 22. PMID: 28241254. PMCID: PMC5488265.
15. **Keyes KM**, Susser E. 2017. Invited commentary: An ingenious approach to examining the relationship between maternal stress and offspring health? American Journal of Epidemiology, Feb 3, 1-4. PMID: 28158433.
16. **Keyes KM**, Tracy M, Mooney SJ, Shev A, Cerdá M. 2017. Invited commentary: Agent-based models: bias in the face of discovery. American Journal of Epidemiology, ePub June 30. PMID: 28673036. PMCID: PMC5860003.
17. **Keyes KM**. 2018. Invited commentary: Marijuana, drug use, and mental health in the United States: a tale of two generations. Addiction, 113(3):482-483. PMID: 29423983.
18. Susser E, **Keyes KM**, Mascayano F. 2018. Health pregnancy and prevention of psychosis. World Psychiatry, 17(3):357-358. PMID: 30192106.
19. Kirkbride JB, **Keyes KM**, Susser E. 2018. City Living and Psychotic Disorders-Implications of Global Heterogeneity for Theory Development. JAMA Psychiatry, ePub Oct 10th. PMID: 30304485.

BOOK CHAPTERS AND SHORT ARTICLES

1. Hasin D, **Keyes KM**, Ogburn E, Hatzenbuehler M. 2007. "Vulnerability to Alcohol and Drug Use Disorders." In M. Tsuang (Ed.), Toward Prevention and Early Intervention of Major Mental and Substance Abuse Disorders. American Psychiatric Publishing, Inc.
2. **Keyes KM**, Hasin DS. 2008. Epidemiology of Alcohol Disorders. In Korsmeyer P & Kranzler H (Eds.), Encyclopedia of Drugs, Alcohol & Addictive Behavior, 3rd edition. Gale Cengage Publishers.
3. **Keyes KM**, Hasin DS. 2008. Causes of alcohol and drug disorders: gender. In Korsmeyer P & Kranzler H (Eds.), Encyclopedia of Drugs, Alcohol & Addictive Behavior, 3rd edition. Gale Cengage Publishers.

4. **Keyes KM**, Hasin DS. 2008. Gender and complications of substance disorders. In Korsmeyer P & Kranzler H (Eds.), Encyclopedia of Drugs, Alcohol & Addictive Behavior, 3rd edition. Gale Cengage Publishers.
5. **Keyes KM**, Hasin DS. 2010. Epidemiology and Management of Alcohol Misuse Comorbid with Other Disorders. In J. Saunders & J. Rey (Eds.), Young People and Alcohol: Impact, Policy, Prevention, Treatment. Wiley-Blackwell, publishers.
6. Pilowsky D, **Keyes KM**. Women and depression. 2010. In R. Senie (Ed.), Epidemiology of Women's Health. Jones & Bartlett, Publishers.
7. Hasin DS, **Keyes KM**. Epidemiology. 2011. In B. Johnson (Ed.), Addiction Medicine: Science and Practice.
8. **Keyes KM**, Li G. Age-period-cohort analysis in injury epidemiology. 2012. In G. Li & S. Baker (Eds.), Injury Research: Theories, Methods, and Approaches. Springer.
9. **Keyes KM**, Liu X. 2013. Age, period, and birth cohort effects in psychiatric disorders in the United States. In press. In K. Koenen, S. Rudenstine, S. Galea, and E. Susser (Eds.), Life Course Epidemiology of Mental Disorders. Oxford University Press.
10. Fink D, **Keyes K**. Wrong answers. In El-Sayed A, Galea S (Eds.), Systems Science in Population Health. Springer. 2016.
11. Fink D, **Keyes K**, Cerda M. Systems science and social epidemiology. In El-Sayed A, Galea S (Eds.), Systems Science in Population Health. Springer. 2016.
12. Cerda M, **Keyes K**. Longitudinal methods for social epidemiologic research. In J. Kaufman and J.M. Oakes (Eds.), Methods in Social Epidemiology. Jossey-Bass. Expected 2018.
13. **Keyes KM**, Schwartz S, Susser E. Psychiatric Epidemiology. In Rothman, Greenland, Lash, Vanderweele (Eds.), Modern Epidemiology, 4th Edition. Lippincott Williams and Wilkins. Expected 2020.

PRESENTATIONS AND INVITED LECTURES (SELECTED)

1. Cannabis withdrawal in 2,613 lifetime heavy cannabis users. Symposium presentation, Novel Phenotype Development for Genetics Studies of Substance Abuse Disorders. September 2005, New York, NY.
2. Gender differences in the risk for alcohol abuse and dependence: the effect of birth cohort. Symposium presentation, Psychiatric Epidemiology Faculty/Fellow Training Seminar. December 2005, New York, NY.
3. **Keyes KM**, Hasin DS. Birth cohort effects on gender differences in the risk for drug dependence. College on Problems of Drug Dependence. July 2006, Scottsdale, AZ.
* **Selected for Women & Gender Junior Investigator Award**
4. Birth cohort effects on gender differences in the risk for alcohol and drug dependence. Symposium presentation, Research Society on Alcoholism. June 2006, Baltimore, MD.

5. Time in the causal landscape: age, period, and cohort effects in alcohol and drug epidemiology. Symposium presentation, Psychiatric Epidemiology Faculty/Fellow Training Seminar, May 2007, New York, NY.
6. Economic capital and problem alcohol use: the positive relationship between income and the DSM-IV alcohol abuse diagnosis. Symposium presentation, Research Society on Alcoholism, July 2007, Chicago, IL.
7. Disentangling age-period-cohort effects: problems and possibilities. Symposium presentation, American Psychopathological Association, March 2008, New York, NY.
8. Methodological Issues in the Estimation of Age-Period-Cohort Effects. Symposium presentation. Psychiatric Epidemiology Faculty/Fellows Training Seminar, March 2008, New York, NY.
9. Influence of a drinking quantity and frequency measure on the prevalence and demographic correlates of DSM-IV alcohol use disorders. Symposium presentation, Research Society on Alcoholism, June 2008, Washington, DC.
10. A Comprehensive Approach to Age-Period-Cohort Analysis. Plenary session presentation, Society for Epidemiologic Research, June 2008, Chicago, IL.
11. Age-Period-Cohort estimation throughout history: tracing the meaning of a 'cohort effect' Symposium presentation. Psychiatric Epidemiology Faculty/Fellows Training Seminar, February 2009, New York, NY.
12. Challenging the paradigm of a "telescoping" phenomenon in gender differences for substance disorders: results of a cohort analysis in the U.S. population. Symposium presentation, International Federation of Psychiatric Epidemiology, April 2009, Vienna, Austria.
13. Population-level disapproval and the prevalence of substance use: a multi-level age-period-cohort analysis of high-school attending adolescents in the United States, 1976-2008. Symposium presentation, Research Seminars in Epidemiology, October 2009, New York, NY.
14. 'Age Selection of Mortality from Tuberculosis': a re-analysis of Frost on the 70th anniversary of publication. Symposium presentation, American Public Health Association, November 2009, Philadelphia, PA.
15. The role of craving in future classifications of alcohol use disorders. Symposium presentation, Adverse Childhood Experiences, Personality Psychopathology, and Alcohol Disorders, December 2009, New York, NY.
16. Time as a multi-level risk factor: the impact of time period- and birth cohort-specific social norms on adolescent marijuana use, 1976-2007. Symposium presentation, École Des Hautes Études En Santé Publique, January 2010, Paris, France.
17. *Time in the causal landscape: problems and possibilities in age-period-cohort research. Survey Research Center, February 2010, Ann Arbor, Michigan.

18. Adverse childhood events and the structure of common psychiatric disorders. Symposium presentation, Adverse Childhood Experiences, Personality Psychopathology, and Alcohol Disorders, May 2010, New York, NY.
19. A multi-level framework for understanding birth cohort effects. Symposium presentation, Research Society on Alcoholism, June 2010, San Antonio, Texas.
20. Novel Methods to Assess Societal-Level Causes of Alcohol Disorders Across Time and Place. Symposium chair, Research Society on Alcoholism, June 2010, San Antonio, Texas.
21. Testing the 'Jackson hypothesis': are black/white differences in depression due to differential effects of stress and unhealthy behaviors? Symposium presentation, Psychiatric Epidemiology Faculty/Fellows Training Seminar, November 2010, New York, NY.
22. *The Epidemiology of Substance Use Disorders. Sexuality and HIV Seminar, HIV Center for Clinical and Behavioral Science. February 2011, New York, NY
23. Methodological issues in the assessment of adverse childhood events. Symposium chair, Society for Epidemiologic Research, June 2011, Montreal, Canada.
24. Childhood Maltreatment and the Structure of Common Psychiatric Disorders. Symposium presentation, Society for Epidemiologic Research, June 2011, Montreal, Canada.
25. Time Trends and Their Explanations. Symposium chair, Research Society on Alcoholism, June 2011, Atlanta, Georgia.
26. Understanding family-based designs using Directed Acyclic Graphs. Symposium presentation, World Psychiatric Association Epidemiology Section, March 2012, Sao Paulo, Brazil.
27. *Time trends in alcohol use: Understanding cohort effects, Adult Psychiatry Grand Rounds, Columbia University Department of Psychiatry, May 2012, New York, NY.
28. Thought disorders in the meta-structure of psychopathology. Symposium presentation, Research Society on Alcoholism, June 2012, San Francisco, CA.
29. How can thought disorders be conceptualized in the meta-structure of psychopathology? Symposium presentation, Life History Society, October 2012, Surrey, England.
30. Comorbidity of less common psychiatric disorders in the meta-structure of psychopathology. Symposium presentation, World Psychiatric Association, October 2012, Prague, Czech Republic.
31. The social norms of birth cohorts: age, period, and cohort effects in adolescent and adult binge drinking. Symposium presentation, Society for Research on Child Development, October 2012, Tampa, FL.

32. *The critical role of social norms in population health. Symposium presentation, Columbia University Epidemiology Scientific Symposium: Charting the Course of Social Epidemiology in the Next 25 Years, Symposium presentation, October 2012, New York, NY.
33. The burden of loss: unexpected death and psychiatric disorders across the life course. International Society for Traumatic Stress Studies, Symposium presentation, November 2012, Los Angeles, CA.
34. *Age, period, and cohort effects: an introduction to theory and approaches to analysis. University of Manitoba Clinical Health Sciences, Department of Psychiatry, Invited lecture, January 2013, Winnipeg, Canada.
35. *How does exogenous and endogenous hormone variation affect mental health? New designs for old problems. Psychiatric-Neurological Epidemiology Cluster Seminar, Invited lecture, Columbia University, February 2013, New York, NY.
36. *Social norms and alcohol use: evidence and recommendations for New York City. Community Services Board Meeting, Invited lecture, New York City Department of Health, March 2013, New York, NY.
37. New Methods for an Old Epidemiologic Problem: Age, Period, and Cohort Effects. Society for Epidemiologic Research, Symposium chair, June 2013, Boston, MA.
38. Racial/ethnic differences in alcohol-attributable homicide: how do we move forward? Society for Epidemiologic Research, Symposium presentation, June 2013, Boston, MA.
39. Early life stress and adult psychiatric disorders: assessing causation in a sea of correlation. Society for Epidemiologic Research, Symposium presentation, June 2013, Boston, MA.
40. Understanding substance use epidemiology across time, space, and generation. Society for Epidemiologic Research, Symposium chair, June 2013, Boston, MA.
41. Racial/ethnic differences in drinking in the US: paradoxes, problems, and research priorities. Research Society on Alcoholism, Symposium chair and presentation, June 2013, Orlando, FL.
42. Understanding the teenage brain in context: 35 years of adolescent sensation seeking in the United States. International Federation of Psychiatric Epidemiology, Symposium chair and presentation, June 2013, Leipzig, Germany.
43. Maternal alcohol consumption and offspring psychopathology. European Public Health Association Conference, Symposium presentation, November 2013, Brussels, Belgium.
44. *Age, period, and cohort effects: an introduction to theory and approaches to analysis. CUNY School of Public Health Epidemiology and Biostatistics Seminar Series, Invited lecture, November 2013, New York, NY.

45. Multi-national birth cohort trends in sensation seeking in the United States from 1976 to 2011. Symposium presentation, Society for Research on Adolescents, March 2014, Austin, TX.
46. *Social norms, attitudes, and behavior: how do we harness intention for public health prevention? Columbia University Epidemiologic Science Symposium, April 2014, New York, NY
47. *How can we intervene in neighborhoods to reduce racial/ethnic inequalities in alcohol-related homicide? Simulating in-silico counterfactuals. Innovations in Translating Injury Research Into Effective Prevention, May 2014, New York, NY.
48. *How can we intervene in neighborhoods to reduce racial/ethnic inequalities in alcohol-related homicide? Simulating in-silico counterfactuals. Partnership for a Healthier New York City, June 2014, New York, NY.
49. How should we prioritize 'external validity' when aiming to conduct an epidemiology that matters? Symposium presentation, Society for Epidemiologic Research, June 2014, Seattle, WA.
50. Health within and across generations: new research in life course epidemiology. Symposium chair, Society for Epidemiologic Research, June 2014, Seattle, WA.
51. *A brief introduction to age-period-cohort methodology. SER Experts presentation, Society for Epidemiologic Research, June 2014, Seattle, WA.
52. Racial/ethnic differences in alcohol use across the life course: an explanation of health disparities? International Epidemiological Association, August 2014, Anchorage, AL.
53. Trajectories of alcohol and cigarette use across the lifecourse: evidence from a pregnancy cohort. Symposium presentation, World Psychiatric Association, September 2014, Madrid, Spain.
54. *The burden of loss: unexpected death and psychiatric disorders across the life course. Symposium presentation, World Psychiatric Association Epidemiology Section, October 2014, Nara, Japan.
55. *Psychiatric disorders among bereaved individuals. Grand Rounds speaker, Hartford Hospital Institute of Living, October 2014, Hartford, CT.
56. *Racial/ethnic differences in substance use across the life course. Grand Rounds speaker, Alcohol Research Group. November 2014, Berkeley, California.
57. Has the population prevalence of adolescent sensation seeking and its relation to substance use changed over time? Symposium presentation, Society for Research on Child Development. March 2015, Philadelphia, PA.
58. The Great Sleep Recession: Changes in Sleep Duration Among US Adolescents, 1991-2012. Symposium presentation, Society for Research on Child Development. March 2015, Philadelphia, PA.

59. Alcohol Interventions and Rates of Violence and Homicide in New York City: an Agent-Based Approach. Symposium presentation, Society for Epidemiological Research, June 2015, Denver, CO.
60. The mathematical limits of genetic prediction for complex chronic disease. Symposium presentation, Society for Epidemiological Research, June 2015, Denver, CO.
61. Teaching epidemiology by building on foundational concepts. Symposium presentation, Society for Epidemiological Research, June 2015, Denver, CO.
62. Mental Health and Aging: Chronic Disease, Cognition, and Pathways Connecting Mind and Body. Symposium chair, Society for Epidemiological Research, June 2015, Denver, CO.
63. *Advances in age, period, and cohort effect analysis. Faculty of Health Sciences Research Seminar Series, Invited lecture, September 2015, Vancouver, Canada.
64. *How and why do psychiatric disorders change across time. Canadian Association of Psychiatric Epidemiology, Keynote speaker, September 2015, Vancouver, Canada.
65. Anxious and angry: course and comorbidity of intermittent explosive disorder and anxiety disorders in adolescence. Symposium presentation, International Federation of Psychiatric Epidemiology, October 2015, Bergen, Norway.
66. *Using complex systems modeling to examine alcohol-attributable homicide in New York City. Invited lecture, Injury Prevention Research Center, Office of the Vice-Chancellor for Research, Social Epidemiology Program, Epidemiology Department, Gillings School of Global Public Health, University of North Carolina. October 2015, Chapel Hill, NC.
67. *How and why do psychiatric disorders change across time. Institute for Translational Epidemiology, Mount Sinai School of Medicine, Seminar presentation, January 2016, New York, NY.
68. *The mathematical limits of genetic prediction for complex chronic disease. Symposium presentation, American Psychopathological Association, March 2016, New York, NY.
69. *Cohort studies in epidemiology: considering cross-generational influences on health. Invited speaker, World Psychiatric Association Epidemiology Section, April 2016, Munich, Germany.
70. How healthy are survey respondents compared to the general population? A comparison of mortality rates from linked death records. Symposium presentation, World Psychiatric Association Epidemiology Section, April 2016, Munich, Germany.
71. *How and why do psychiatric disorders change across time. Brain Health Colloquium, Harvard T.H. Chan School of Public Health, Seminar presentation, April 2016, Boston, MA.
72. How similar are survey respondents to the general population? Symposium presentation, Society for Epidemiologic Research, June 2016, Miami, FL.

73. Agent-Based models and the G-Formula: Comparable Approaches for Evaluating Population Intervention Effects? Symposium discussant, Society for Epidemiologic Research, June 2016, Miami, FL.
74. The impact of traumatic experiences across diverse populations: causes, consequences, and correlates. Symposium chair, Society for Epidemiologic Research, June 2016, Miami, FL.
75. Agent-based model of alcohol taxation effects on violence and homicide in New York City. Symposium presentation, Research Society on Alcoholism, June 2016, New Orleans, LA.
76. *Alcohol use and morbidity across historical time: what does variation tell us about environmental determinants of alcohol-related outcomes? Plenary talk, Research Society on Alcoholism, June 2016, New Orleans, LA.
77. *Why does epidemiology matter? Invited lecture, International Journal of Epidemiology Conference, October 2016, Bristol, UK.
78. *The role of epidemiology in population mental health in the 21st century: history, current progress, future directions. Population Health Research Seminar, October 2016, New York University, New York, NY.
79. *The role of epidemiology in population mental health in the 21st century: history, current progress, future directions. Epidemiology Seminar Series, November 2016, Virginia Commonwealth University, Richmond, Virginia
80. *Fundamentals of age-period-cohort analysis. Epidemiology Seminar Series, February 2017, University of California San Francisco, San Francisco, California.
81. *The role of epidemiology in population mental health in the 21st century: history, current progress, future directions. Epidemiology Seminar Series, April 2017, University of Capetown, Capetown, South Africa.
82. *The role of epidemiology in population mental health in the 21st century: history, current progress, future directions. Key note address, Epidemiology Student Research Day, April 2017, McGill University, Montreal, Canada.
83. *Alcohol use and morbidity across historical time: what does variation tell us about environmental determinants of alcohol-related outcomes? National Institute of Health Director's Wednesday Afternoon Lecture Series (WALS), May 2017, NIH, Bethesda, MD.
84. Fifty years of high impact epidemiological research on drug use disorders and related conditions: Looking back and ahead. Symposium presentation, Society for Epidemiologic Research, June 2017, Seattle, WA.
85. Psychiatric epidemiology in the era of precision medicine: what is our role? Symposium chair, Society for Epidemiologic Research, June 2017, Seattle, WA.

86. *The role of epidemiology in population mental health in the 21st century: history, current progress, future directions. Seminar Series, August 2017, National Institute of Occupational Health, Oslo, Norway.
87. *Historical and current trends in adolescent heavy alcohol use, depressive affect, and their relationship: implications for adolescent suicide in the United States. NIAAA Workshop to Explore Research Needs in Addressing Alcohol-Related Suicide, September 2017, National Institute of Alcohol Abuse and Alcoholism, Rockville, Maryland.
88. The influence of medical marijuana laws on adolescent and adult outcomes: current state evidence from the United States. Symposium presentation, World Psychiatric Association, October 2017, Berlin, Germany.
89. Utilising epidemiology to guide innovative prevention for comorbid mental and substance use problems in young people. Symposium discussant, International Federation of Psychiatric Epidemiology, October 2017, Melbourne, Australia.
90. Transdiagnostic psychiatric disorder risk associated with early and late age of menarche: a latent modeling approach. Symposium presentation, International Federation of Psychiatric Epidemiology, October 2017, Melbourne, Australia.
91. Mental health and firearm violence: Understanding social and environmental contexts on the path to prevention. Symposium chair, International Federation of Psychiatric Epidemiology, October 2017, Melbourne, Australia.
92. Mental health and firearm violence: what role should disqualification criteria on firearm ownership play? Symposium presentation International Federation of Psychiatric Epidemiology, October 2017, Melbourne, Australia.
93. *The epidemiology of opioid use, opioid disorder, and overdose in the United States: past, present, and evidence-based control strategies. Keynote address, Kentucky Association of Counties annual conference, November 2017, Louisville, Kentucky
94. *As adolescent substance use declines, depression and suicidality increase: a tale across generations. NYU Population Health, Epidemiology Seminar Series. December 4th, 2017, New York, NY
95. *Life Course Psychopathology: The Next Decade. American Psychopathological Association, invited talk, March 3rd, 2018. New York, NY.
96. *Mental health over the life course: adolescence. National Academy of Sciences workshop: Women's Mental Health across the Life Course. March 7th, 2018. Washington DC.
97. *The role of epidemiology in population mental health in the 21st century: history, current progress, future directions. Seminar Series, April 2017, French National Institute of Health Keyes, Katherine, Curriculum Vitae, Page 40 of 41

and Medical Research (INSERM), Paris, France.

98. *Opioid use, disorder, and mortality: past, present, and evidence-based control strategies. Mass Torts Made Perfect conference, invited talk, April 2018, Las Vegas, NV.
99. Declines in the relationship between adolescent depressive affect and binge drinking: implications for public mental health. Research Society on Alcoholism, symposium presentation, June 2018, San Diego, CA.
100. Who thinks like that? Survey methods for non-survey data. Society for Epidemiological Research, symposium presentation, June 2018, Baltimore, MD.
101. Are urban and rural health differences due to exposure prevalence variation or interaction: when and why does it matter? Society for Epidemiological Research, symposium presentation, June 2018, Baltimore, MD.
102. Consequences of medical and recreational cannabis legislation on opioid-related harm. Society for Epidemiological Research, symposium presentation, June 2018, Baltimore, MD.
103. Changes in United States health policy: implications for substance use and injury. Society for Epidemiological Research, symposium chair, June 2018, Baltimore, MD.
104. *Depression's got a hold of me: Gender differences and generational trends in alcohol use and mental health among US adolescents and adults. Substance Abuse Epidemiology Training Program seminar, Columbia University, October 2018, New York, NY.
105. *Depression's got a hold of me: Gender differences and generational trends in alcohol use and mental health among US adolescents and adults. Epidemiology and Biostatistics Seminar, Drexel University, November 2018, Philadelphia, PA.
106. *Depression's got a hold of me: Gender differences and generational trends in alcohol use and mental health among US adolescents and adults. Epidemiology and Biostatistics Seminar, Drexel University, November 2018, Philadelphia, PA.
107. *Depression's got a hold of me: Gender differences and generational trends in alcohol use and mental health among US adolescents and adults. Centro de Investigación en Sociedad y Salud, Universidad Mayor, November 2018, Santiago, Chile.

* Invited lecture